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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,953	10/30/2003	Sean Donald Robert Code	3459-Z	6275
	7590 12/12/20 Iim <b>7</b> egeer	EXAMINER		
Law Office of Jim Zegeer Suite 108 801 North Pitt Street Alexandria, VA 22314			ANYA, CHARLES E	
			ART UNIT	PAPER NUMBER
,			2194	
			MAIL DATE	DELIVERY MODE
•			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

i		Application No.	Applicant(s)			
Office Action Summary						
		10/695,953	CODE ET AL.			
		Examiner	Art Unit			
		Charles E. Anya	2194			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3/MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>9/13/07</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Dispositi	on of Claims					
4)⊠ Claim(s) <u>16-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>21 and 22</u> is/are allowed.						
6)⊠	Claim(s) 16-19 is/are rejected.					
•	Claim(s) <u>20</u> is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)	WILLIAM THO SUPERVISORY PATE	MSON NT EXAMINER			
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
3) 🔲 Infor	nation Disclosure Statement(s) (PTO/SB/08)  r No(s)/Mail Date	5) Notice of Informal P				

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#### **DETAILED ACTION**

1. Claims 16-22 are pending in this application.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 16-19,21 and 22 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. "retrieving/removing the first task from the job queue" critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

In the independent claims, the first task is never retrieved or removed from the job queue before it is simultaneously executed or combined with another task of equal priority as disclosed on page 5 lines 15-16 of the instant application.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 2. Claims 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pub. No. 2003/0191795 A1 to Bernardin et al. in view of Derwent Acc. No. 2000-079595 to Derwent Information Ltd. (Hereinafter referred to as Derwent).
- 3. As to claim 16, Bernardin teaches a method of scheduling tasks within a computing device, comprising the steps of: a) maintaining a multi-level work queue of a plurality of waiting tasks awaiting scheduling, said waiting tasks being ordered in said multi-level work queue according to an associated priority ("...Waiting Task List..." page 3 paragraphs 0031/0034/0036, "...adding the task...waiting task list..." page 6 paragraph 0069); b) scheduling tasks from the highest priority level of said work queue into a job queue, for scheduling a first task from said multi-level work queue into said job queue ("...Pending Task List..." page 3 paragraph 0032, "...pending tasks..." page xx paragraph 009).

Bernardin is silent with reference to attempting to locate a selected task from within the job queue which is capable of being executed simultaneously with the first task, while considering only the tasks in said job queue with a priority equal to that of the first task; and if such a selected task is located, replacing said selected task with a combined task that comprises the first task and the selected task for simultaneous execution.

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Derwent teaches attempting to locate a selected task from within the job queue which is capable of being executed simultaneously with the first task, while considering only the tasks in said job queue with a priority equal to that of the first task and if such a selected task is located, replacing said selected task with a combined task that comprises the first task and the selected task for simultaneous execution ("... thread of same priority..." page 1 lines 5 – 8: NOTE: the locating of a selected task within a job queue is inherently taught since tasks waiting execution are conventional stored in a queue pending selection for execution).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Bernardin with teaching of Derwent because the teaching of Derwent would improve the system of Bernardin by allowing for optimal use of computer resources.

- 4. As claims 17 and 18, see the rejection of claim 16 above.
- As to claim 19, Bernardin teaches a method of scheduling tasks within a 5. computing device, comprising the steps of: a) maintaining a multi-level work queue of a plurality of waiting tasks awaiting scheduling, said waiting tasks being ordered in said multi-level work queue according to an associated priority ("... Waiting Task List..." page 3 paragraphs 0031/0034/0036, "...adding the task...waiting task list..." page 6 paragraph 0069); b) scheduling said waiting tasks from said multi-level work queue into a job queue ("... Pending Task List..." page 3 paragraph 0032, "... pending tasks..."

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page 6 paragraph 009); c) determining whether the computing device has sufficient resources to execute a first task being currently scheduled;/d) if the computing device has sufficient resources to execute the first task ("... Discriminator..." page 5 paragraph 0056-0060, "... an indication from a processing resource that the resource is available..." page 6 paragraph 0069, "...indication of availability..." page 7 paragraphs 0070/00720074, page 8 paragraph 0078, page 10 paragraph 0115), the method comprising the further steps of:

Bernardin is silent with reference to attempting to locate a selected task from within the job queue which is capable of being executed simultaneously with the first task, while considering only the tasks in said job queue with a priority equal to that of the first task; and if such a selected task is located, replacing said selected task with a combined task that comprises the first task and the selected task for simultaneous execution.

Pulsipher teaches attempting to locate a selected task from within the job queue which is capable of being executed simultaneously with the first task, while considering only the tasks in said job queue with a priority equal to that of the first task and if such a selected task is located, replacing said selected task with a combined task that comprises the first task and the selected task for simultaneous ("...thread of same priority..." page 1 lines 5 – 8: NOTE: the locating of a selected task within a job queue is inherently taught since tasks waiting execution are conventional stored in a queue pending selection for execution).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Bernardin with teaching of Derwent because the teaching of Derwent would improve the system of Bernardin by allowing for optimal use of computer resources.

### Allowable Subject Matter

Claims 21 and 22 are allowed

Claims 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

NOTE: The allowability is subject to Applicant's appropriately addressing the 112 1st. rejection.

### Response to Arguments

Applicant's arguments with respect to claims 16-22 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles E. Anya whose telephone number is 571-272-3757. The examiner can normally be reached on 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on 571-272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

cea.

WILLIAM THOMSON
WILLIAM THOMSON
EXAMINER